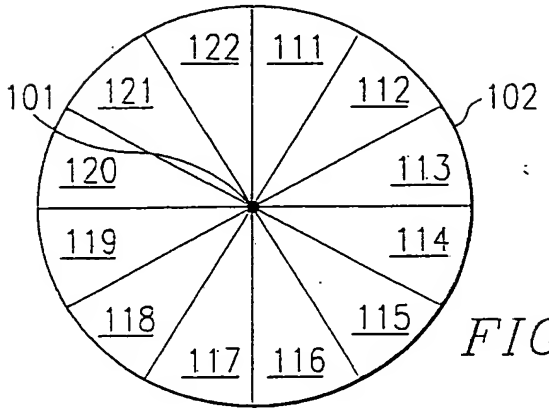

FIG. 1

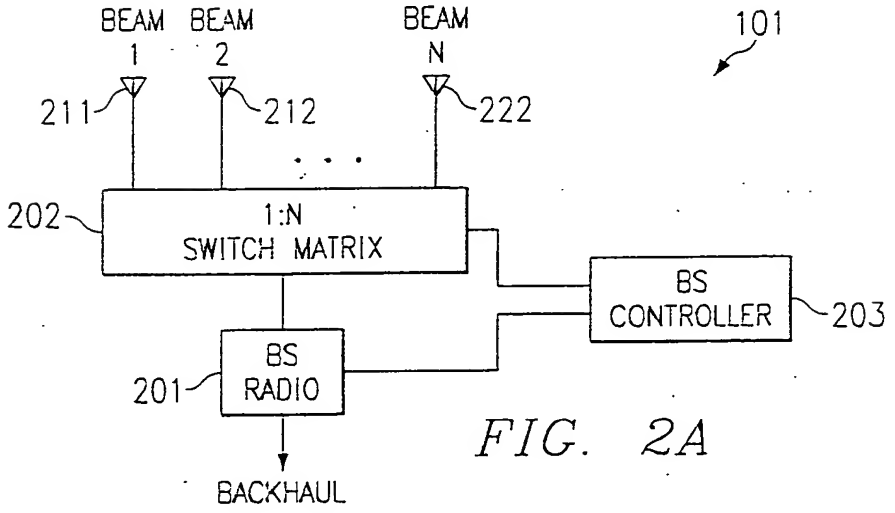

FIG. 2A

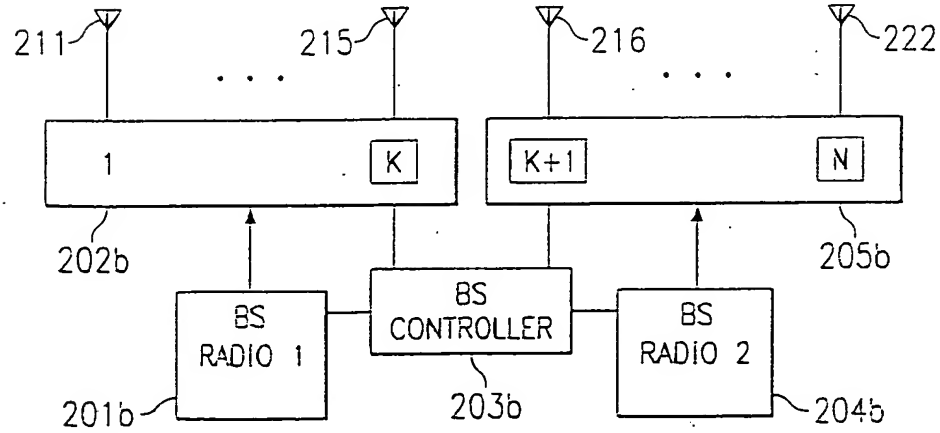

FIG. 2B

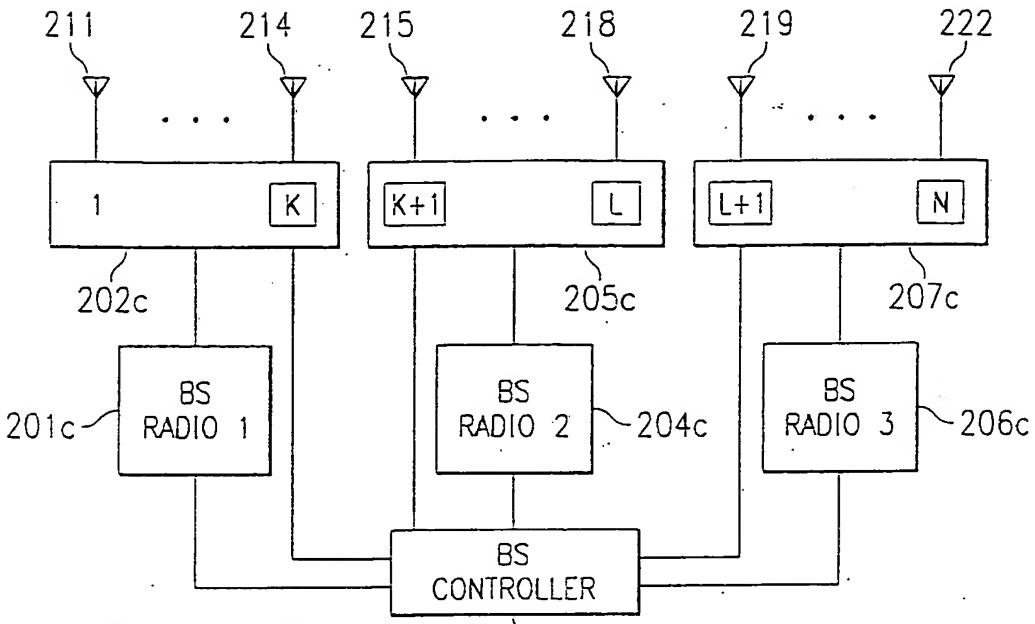
211
214
215
218
219
222
1
K
K+1
L
L+1
N
202c
205c
207c
BS RADIO 1
BS RADIO 2
BS RADIO 3
201c
204c
206c
BS CONTROLLER
203c

FIG. 2C

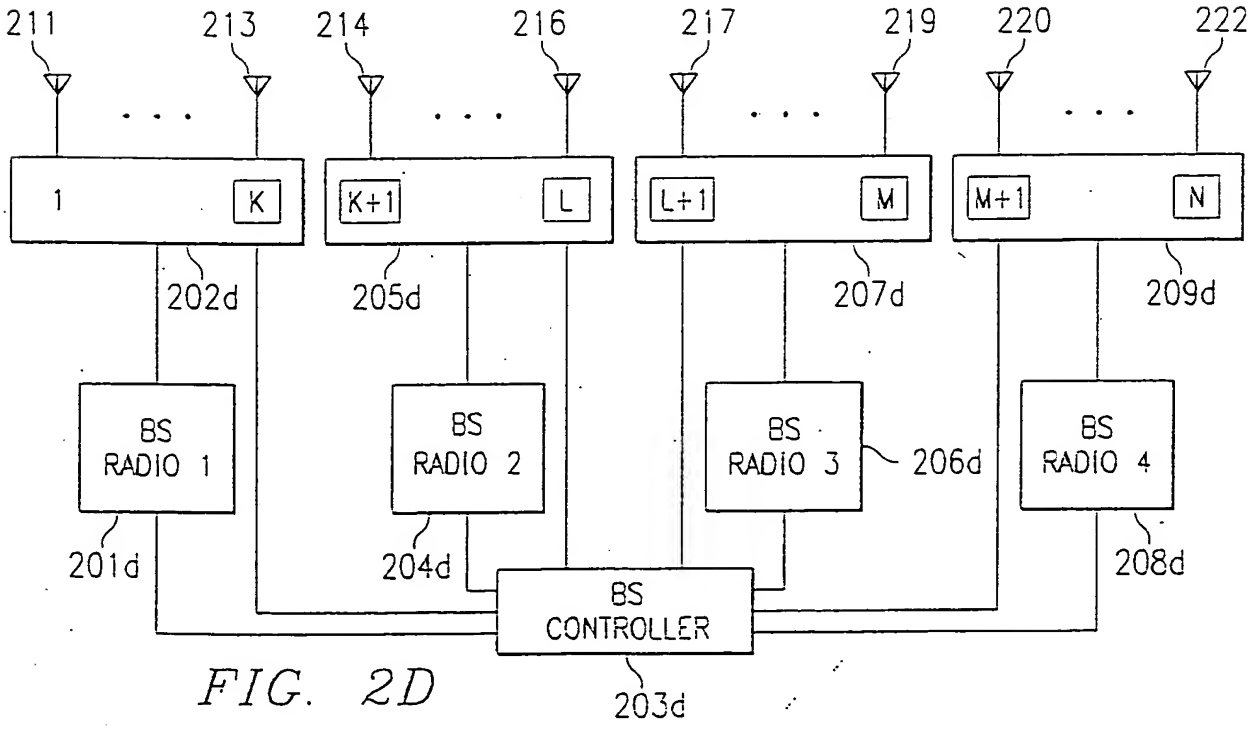
211
213
214
216
217
219
220
222
1
K
K+1
L
L+1
M
M+1
N
202d
205d
207d
209d
BS RADIO 1
BS RADIO 2
BS RADIO 3
BS RADIO 4
201d
204d
206d
208d
BS CONTROLLER
203d

FIG. 2D

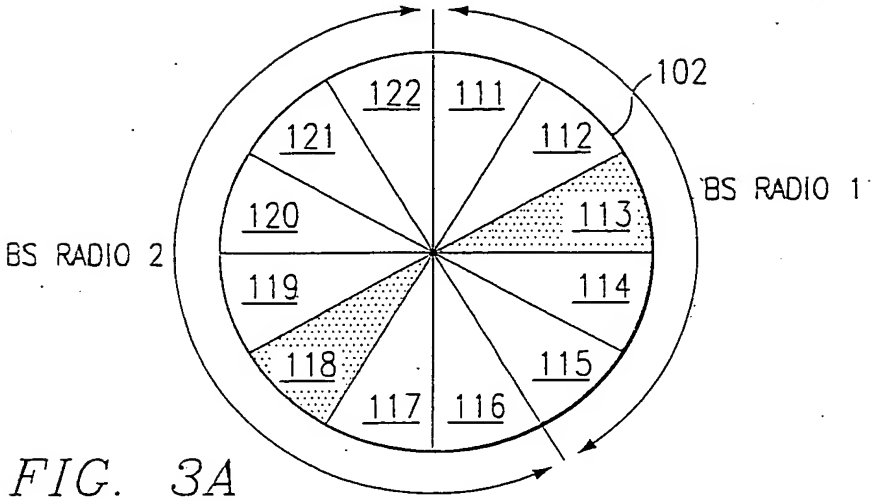

FIG. 3A

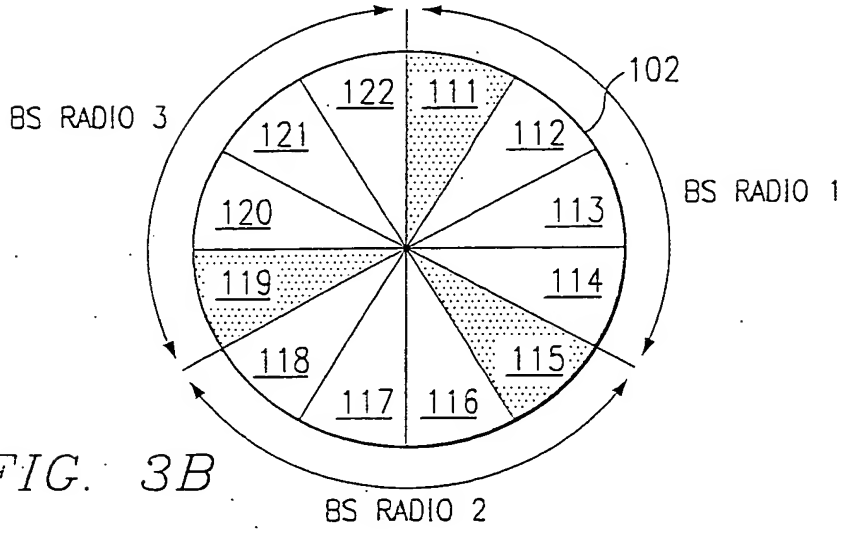

FIG. 3B

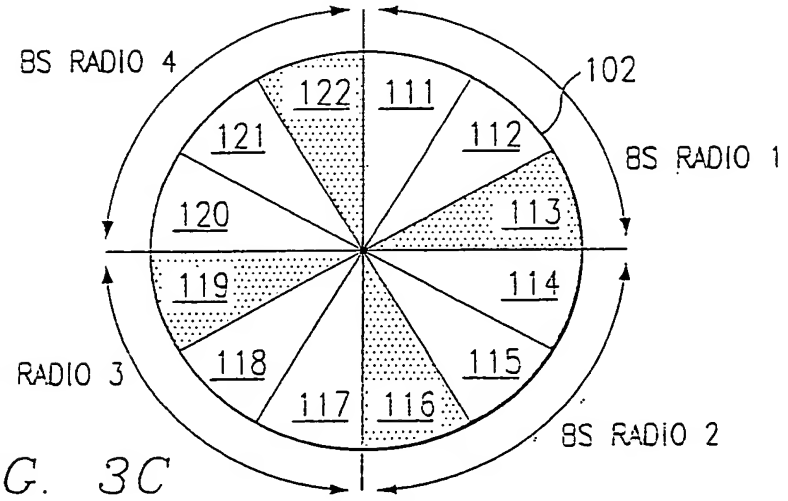

FIG. 3C

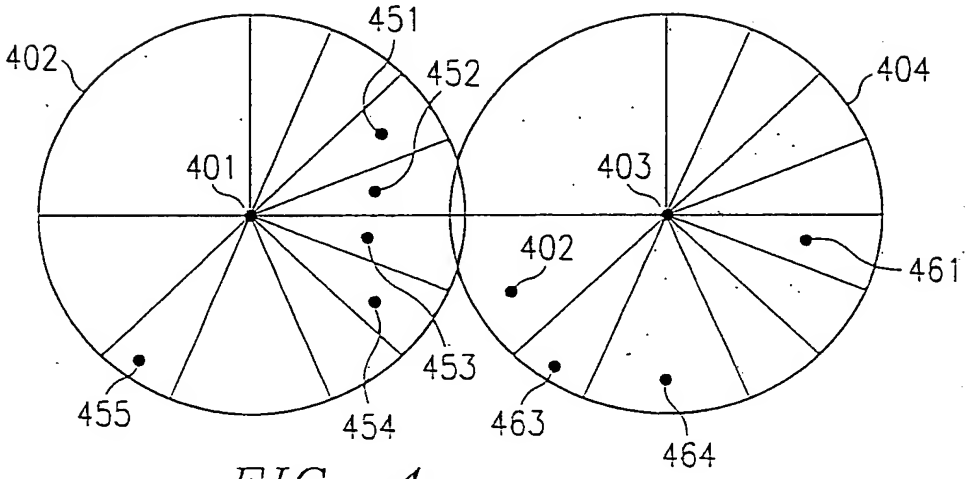

FIG. 4

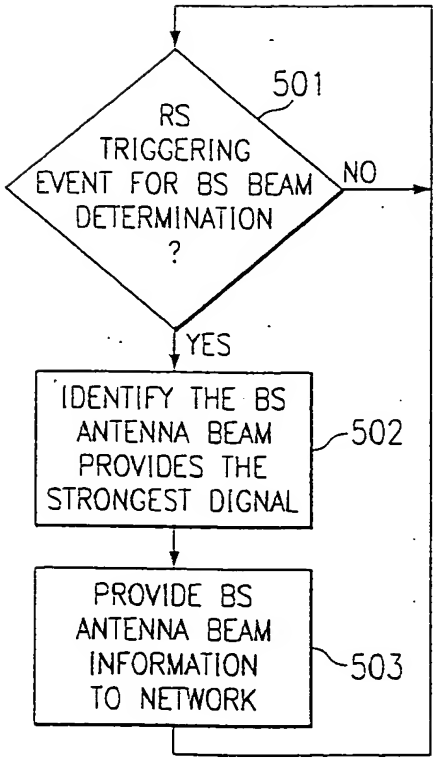

FIG. 5A

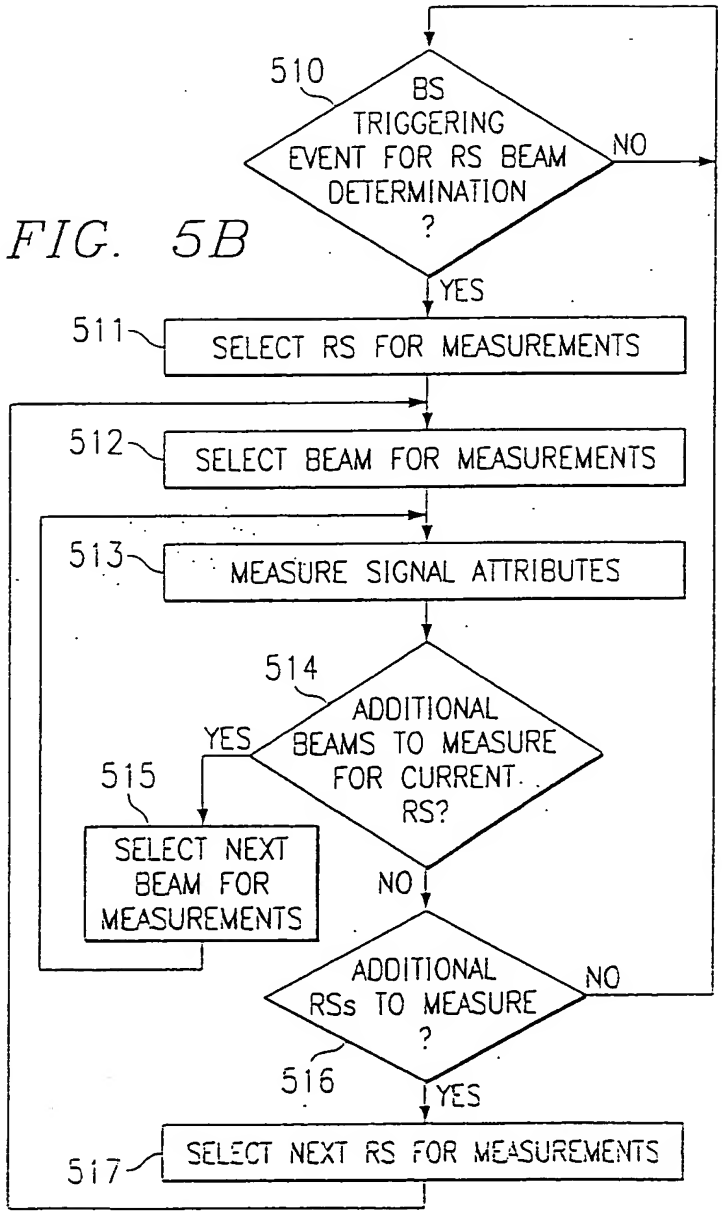

FIG. 5B

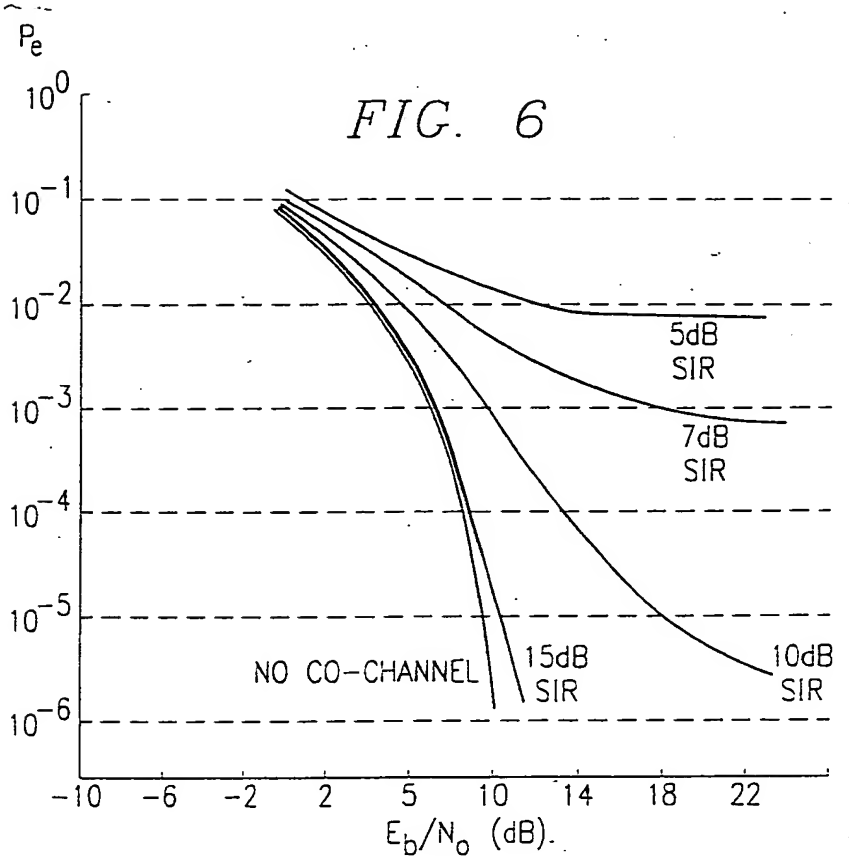
$\hat{P}_e$
10^0
10^{-1}
10^{-2}
10^{-3}
10^{-4}
10^{-5}
10^{-6}
5dB SIR
7dB SIR
NO CO-CHANNEL
15dB SIR
10dB SIR
−10 −6 −2 2 5 10 14 18 22
E_b/N_o (dB)

FIG. 6

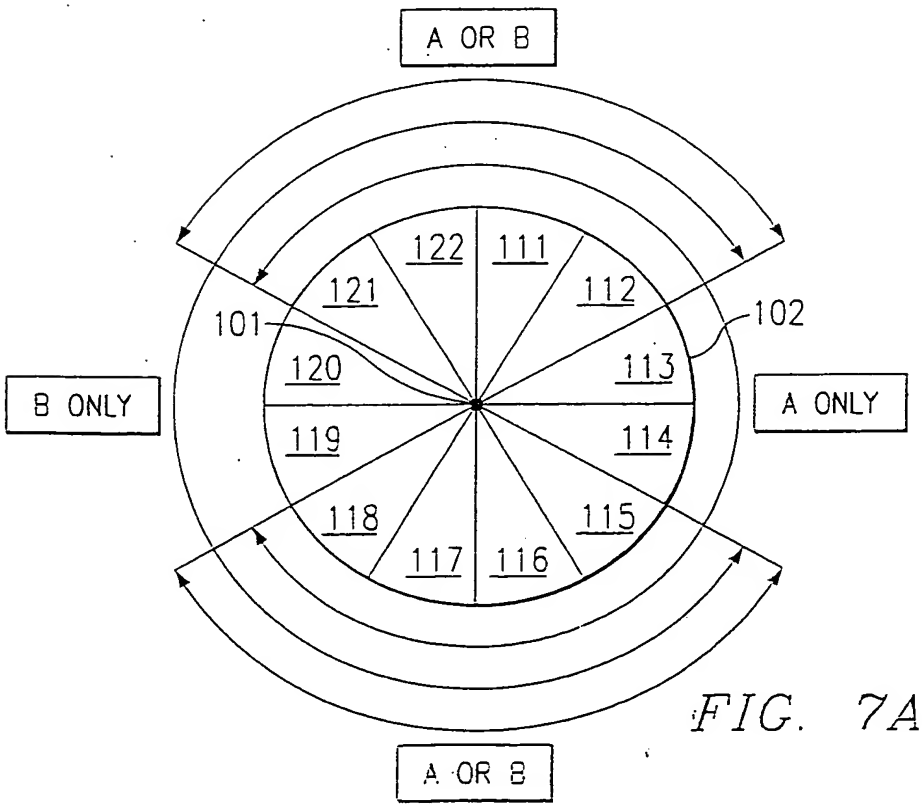
A OR B
B ONLY
A ONLY
A OR B
101
102
122
111
121
112
120
113
119
114
118
115
117
116

FIG. 7A

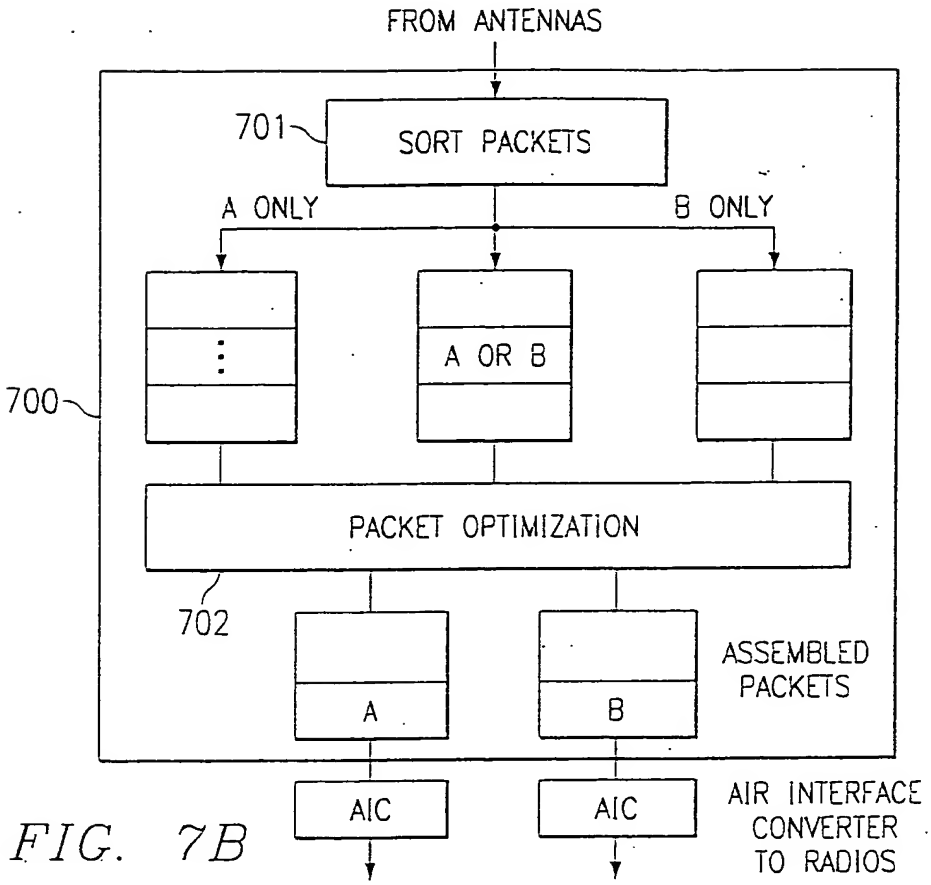

FIG. 7B

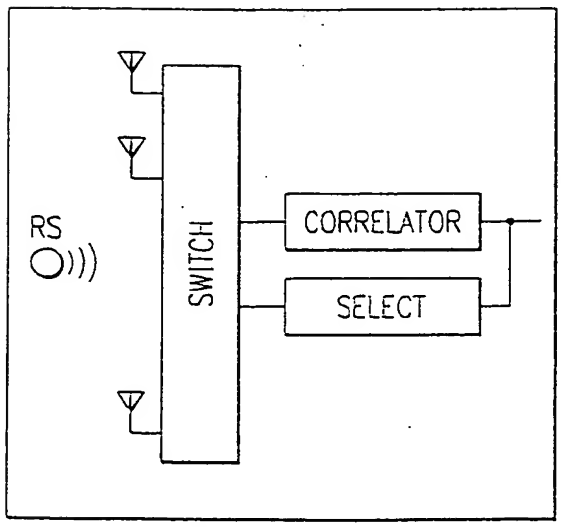

FIG. 9

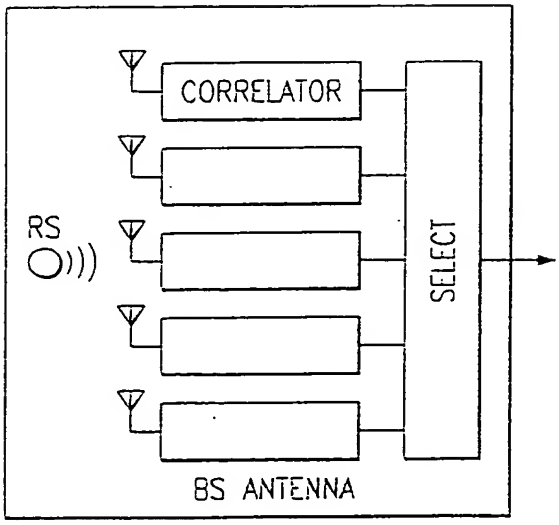

FIG. 10

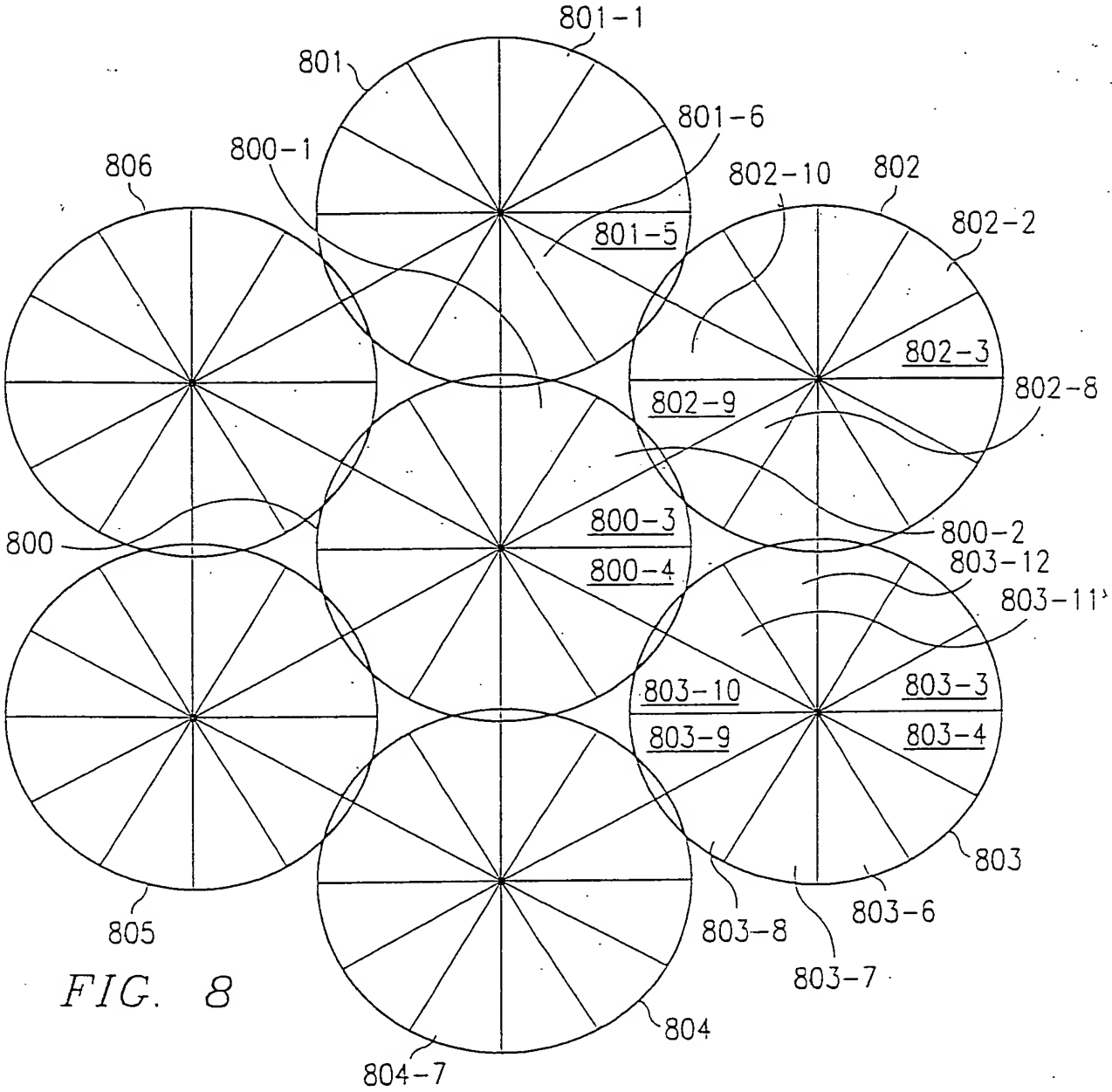
801-1
801
801-6
800-1
806
802-10
802
802-2
801-5
802-3
802-9
802-8
800-3
800-2
800
800-4
803-12
803-11
803-10
803-3
803-9
803-4
803
803-6
803-8
803-7
805
804
804-7

FIG. 8

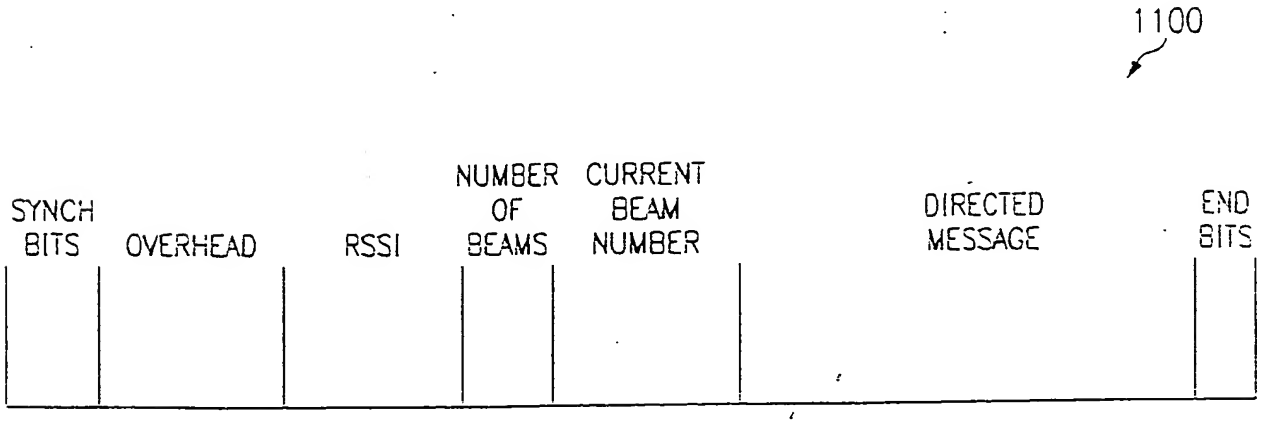
1100
SYNCH BITS
OVERHEAD
RSSI
NUMBER OF BEAMS
CURRENT BEAM NUMBER
DIRECTED MESSAGE
END BITS

FIG. 11

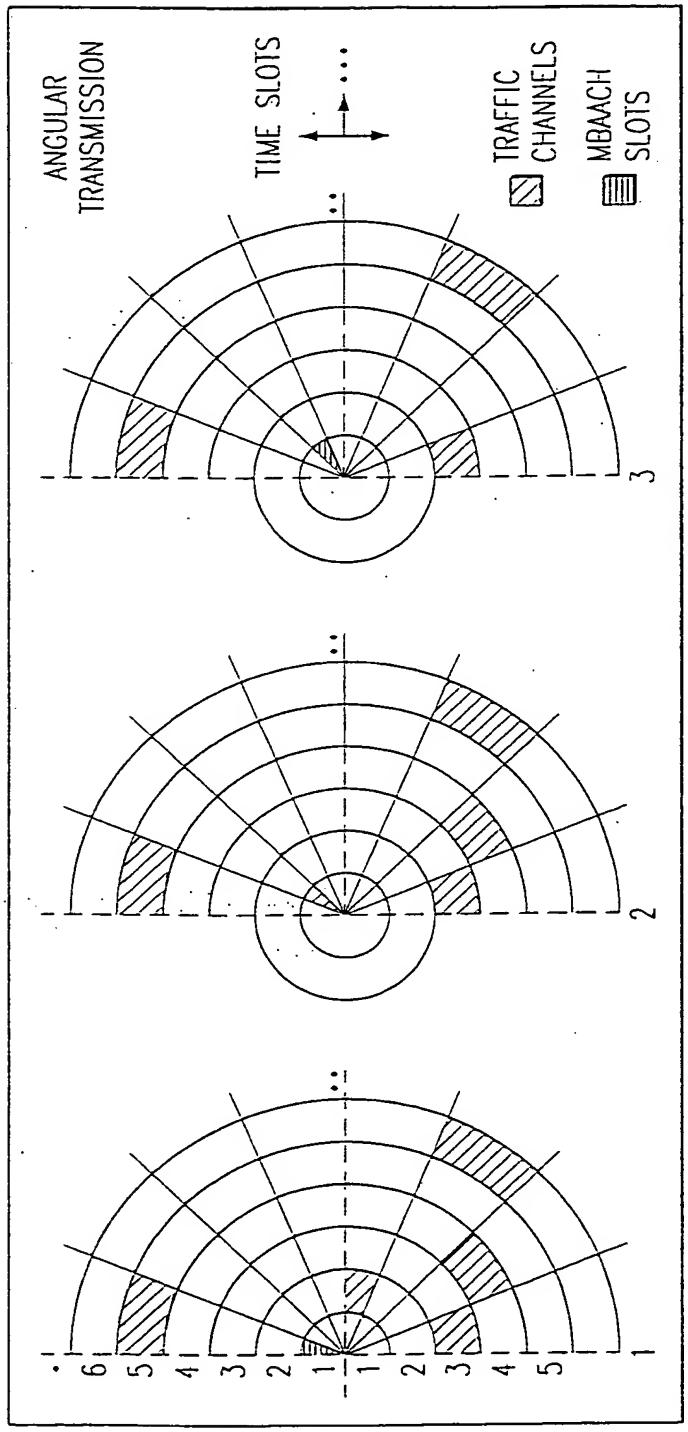
ANGULAR TRANSMISSION
TIME SLOTS
TRAFFIC CHANNELS
MBACH SLOTS
1
2
3
4
5
6

FIG. 12

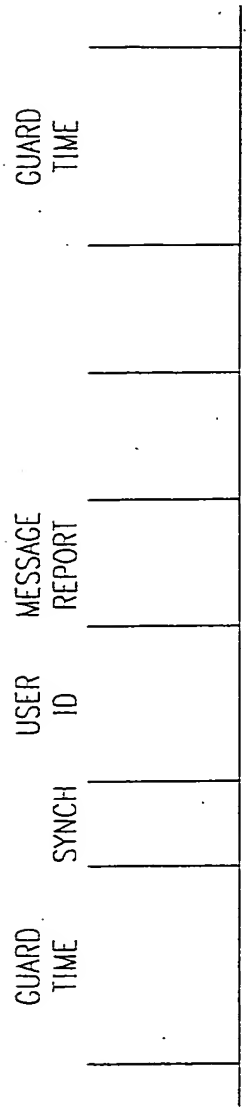
GUARD TIME
SYNCH
USER ID
MESSAGE REPORT
GUARD TIME

FIG. 13

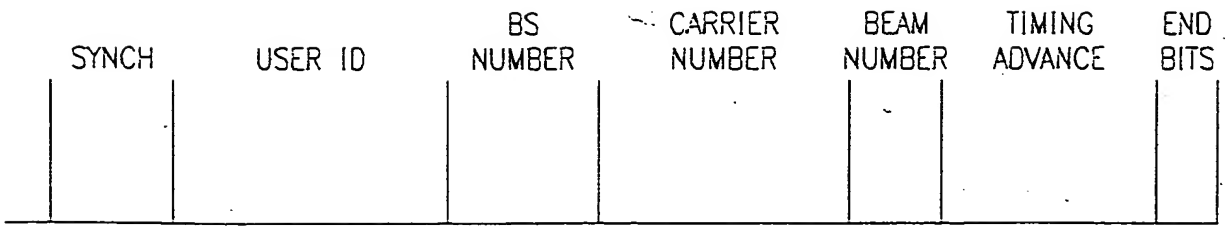

FIG. 14

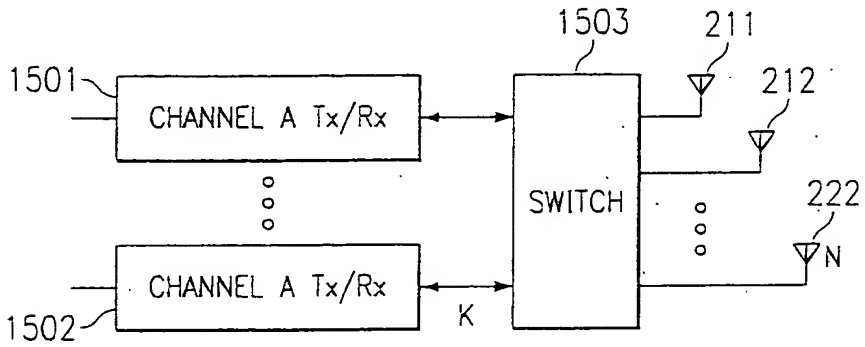

FIG. 15

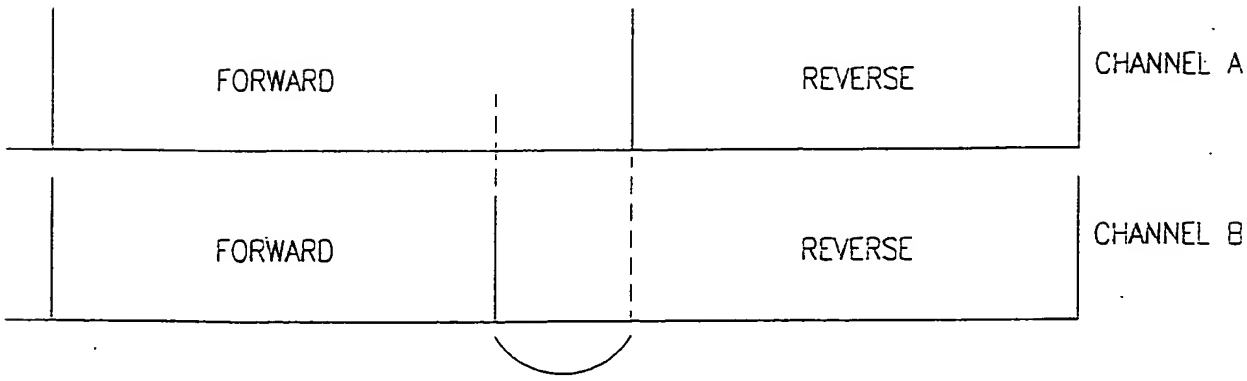

FIG. 16